

## Technical Data Sheet

# DuClear<sup>®</sup> QW 80 AV

## Polypropylene Random Copolymer

### Description

**DuClear QW 80 AV** is a controlled rheology modified polypropylene random copolymer (produced with a phthalate-free catalyst), suitable for injection moulding applications. The product is clarified and contains an anti-electrostatic agent. DuClear QW 80 AV features a very good transparency and aesthetic appearance, a good balance of stiffness and impact strength, good organoleptics, low blooming, very high melt flow, and energy & cycle time savings.

### Applications

**DuClear QW 80 AV** is suitable for: high-speed injection moulding, thin-walled packaging, containers, and house ware.

### Quality, Environment and Safety Regulations

Material Safety Data Sheets and other regulatory documents are available on our web site <http://www.ducorchem.com>.

Properties		Method	Typical Value*	Unit
<b>Physical</b>				
Melt Flow Rate	(230 °C / 2.16 kg)	ISO 1133	80	g/10 min
<b>Mechanical</b>				
Tensile Modulus	(1 mm/min)	ISO 527-2	1100	MPa
Tensile Stress at Yield	(50 mm/min)	ISO 527-2	28	MPa
Tensile Strain at Yield	(50 mm/min)	ISO 527-2	12	%
Tensile Strain at Break	(50 mm/min)	ISO 527-2	> 50	%
Charpy Impact Strength, notched	(+23 °C)	ISO 179/1eA	4.5	kJ/m <sup>2</sup>
	(0 °C)	ISO 179/1eA	1.7	kJ/m <sup>2</sup>
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	170	kJ/m <sup>2</sup>
	(0 °C)	ISO 179/1eU	60	kJ/m <sup>2</sup>
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	4.0	kJ/m <sup>2</sup>
	(0 °C)	ISO 180/1A	1.8	kJ/m <sup>2</sup>
<b>Thermal</b>				
Melting Point, DSC		ISO 3146	151	°C
Heat Deflection Temperature	(1.8 MPa)	ISO 75-2	50	°C
Heat Deflection Temperature	(0.45 MPa)	ISO 75-2	75	°C
Vicat Softening Temperature	(10 N)	ISO 306	130	°C
Vicat Softening Temperature	(50 N)	ISO 306	72	°C
<b>Other Properties</b>				
Haze	(1 mm plaque)	ASTM D1003	8	%
Density		ISO 1183	0.91	g/cm <sup>3</sup>

\* Typical values; not to be construed as specifications

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